

<b>CLASSIFICATION</b>	<b>PAGE</b>
<b>ANTENNA EQUIPMENT CHARACTERISTICS</b>	
1. <input type="checkbox"/> a. TRANSMITTING <input type="checkbox"/> b. RECEIVING <input type="checkbox"/> c. TRANSMITTING AND RECEIVING	
<b>2. NOMENCLATURE, MANUFACTURER'S MODEL NO.</b>	<b>3. MANUFACTURER'S NAME</b>
<b>4. FREQUENCY RANGE</b>	<b>5. TYPE</b>
<b>6. POLARIZATION</b>	<b>7. SCAN CHARACTERISTICS</b>
<b>8. GAIN</b>	a. TYPE
	b. VERTICAL SCAN
a. MAIN BEAM	(1) MAX ELEV
b. 1ST MAJOR SIDE LOBE	(2) MIN ELEV
	(3) SCAN RATE
<b>9. BEAMWIDTH</b>	c. HORIZONTAL SCAN
a. HORIZONTAL	(1) SECTOR SCANNED
b. VERTICAL	(2) SCAN RATE
	d. SECTOR BLANKING ( <i>X one</i> )
	<input type="checkbox"/> (1) YES <input type="checkbox"/> (2) NO
<b>10. REMARKS</b>	
<b>CLASSIFICATION</b>	

**INSTRUCTIONS FOR COMPLETING DD FORM 1494,  
"APPLICATION FOR EQUIPMENT FREQUENCY ALLOCATION"  
ANTENNA EQUIPMENT CHARACTERISTICS PAGE**

**ITEM 1 - Function.** Mark the appropriate block to indicate the type of function the antenna performs. For multi-antenna system, use one page for each antenna.

**ITEM 2 - Nomenclature, Manufacturer's Model No.** Enter the Government assigned alphanumeric equipment designation. If above is not available, enter the manufacturer's model number, e.g., DS6558, and complete Item 3. If above is not available, enter a short descriptive title, e.g., ATS-6 telemetry antenna.

**ITEM 3 - Manufacturer's Name.** Enter the manufacturer's name if available. If a manufacturer's model number is listed in Item 2, this item must be completed.

**ITEM 4 - Frequency Range.** Enter the range of frequencies for which the antenna is designed. Indicate units, e.g., kHz or MHz.

**ITEM 5 - Type.** Enter the generic name or describe general technical features, e.g., Horizontal Log Periodic, Cassegrain with Polarization Twisting, Whip, Phased Array or Conformal Array.

**ITEM 6 - Polarization.** Enter the polarization; if circular, indicate whether it is right or left hand.

**ITEM 7 - Scan Characteristics.**

a. If this antenna scans, enter the type of scanning, e.g., vertical, horizontal, vertical and horizontal.

b. (1) Enter the maximum elevation angle in degrees (positive or negative referenced to the horizontal) that the antenna can scan.

(2) Enter the minimum elevation angle in degrees (positive or negative referenced to the horizontal) that the antenna can scan.

(3) Enter the vertical scan rate in scans per minute.

c. (1) Enter the angular scanning range in scans per minute.

(2) Enter the horizontal scanning rate in scans per minute.

d. Indicate if antenna is capable of sector blanking. If yes, enter details in item 10, "Remarks."

**ITEM 8 - Gain.**

a. Enter the maximum gain in dBi.

b. Enter the nominal gain of the first major side lobe of the main beam in dBi and the angular displacement from the main beam in degrees.

**ITEM 9 - Beamwidth.** Enter the 3 dB beamwidth in degrees.

**ITEM 10 - Remarks.** Use this item to describe any unusual characteristics of the antenna, particularly as they relate to the assessment of electromagnetic compatibility. Use this item to amplify or clarify any of the information provided above.